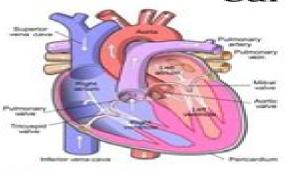
# Cardiovascular System



#### 3 Layers of the Heart:

- Epicardium the outermost layer of the heart.
- Myocardium the middle layer of the heart, the contracting muscle.
- innermost layer of the heart, lines the inner chambers and the

#### The Heart:

It is a cone-shaped organ in the mediastinal space. Which pumps oxygenated blood into the arterial system to supply capillaries and tissue. It pumps poor oxygenated blood from the venous system through the lungs to be reoxygenated. The heart is encased in a pericardial sac, which protects it, lubes and holds about 10-20 ml of pericardial fluid. The sac has 2 layers:



art from the body

#### Chambers of the Heart:

- Right Atrium carries decxygenated blood from the body via superior and inferior vena cava.
- Left Atrium carries oxygenated blood from the pulmonary veins.

Right Ventricle- carries

blood from the right
atrium and pumps
the lungs
pulmos
and pumps it
and pumps it
to and pumps it
to and pumps it

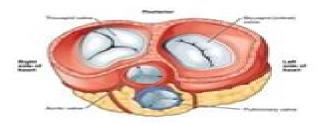
# Valves of the Heart:

3.

- 1. Tricuspid Value on the right so heart.
- Mitral /Bicuspid Valve located on the left side of the heart.
- Pulmonic Valve between the right ventricle and pulmonary artery.
- Aortic Valve- between the ventricle and the aorta.

# 1. Blood De

- vena cava and enters the right atrium
- 3 Diood then moves through the tricuspid valve into the right ventricle chamber of the heart.
- Then the blood moves through the pulmonary valve into the pulmonary artery.
- The blood re-enters the heart from the lungs through the pulmonary veins, and travel into the left atrium.
- The blood then passes through the mitral valve and into the left ventricle chamber of the heart.
- The blood then moves through the aortic valve and into the aorta.



#### Electrical conduction of the heart:

SA Node: 1st pacemaker of the heart and initiates contraction at 60-100 bpm.

AV Node: 2nd pacemaker of the heart that receives impulses from the SA node initiates and sustains impulses at 40-60 bpm.

Bundle of His: It is the continuation of the AV node and branches into the bundle of his branches which goes into the purkinje fibers.

Purkinje fibers: network of conducting stands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fail as pacemakers. It can sustain 20-40 bom.

# **Human Anatomy And Physiology Study Guide Heart**

**H Kauffman** 

**Human Anatomy And Physiology Study Guide Heart:** 

Enjoying the Song of Term: An Emotional Symphony within Human Anatomy And Physiology Study Guide Heart

In some sort of used by screens and the ceaseless chatter of immediate conversation, the melodic splendor and psychological symphony produced by the published term often diminish in to the backdrop, eclipsed by the relentless sound and interruptions that permeate our lives. But, located within the pages of **Human Anatomy And Physiology Study Guide Heart** an enchanting literary treasure brimming with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, this captivating masterpiece conducts viewers on an emotional journey, well unraveling the hidden songs and profound influence resonating within each carefully crafted phrase. Within the depths of the moving examination, we shall investigate the book is central harmonies, analyze their enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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